APPENDIX VIII

Client has only a ConnectTimer per link and ClientConnectTimerValue = 5 sec

```
InitializeConnection(L)                          (* initialize connection state variables *)
    With LinkArray[L] do
        SequenceNumber:= 0
        State:= ON;
        Empty SourceVlanTable;

OldHello(H,L)  (* checks whether a received hello H has same info as previously received hello link L*)
    With LinkArray[L] do
        Return true iff (H.ServerId = ServerId) and (H.ConnectId = ConnectId)

UpdateServerStatus  (* checks for multiple servers, also updates set of operational links to server *)
    For each Record R in ServerList
        Let LRSet be the set of link records of links specified in R.Links
        If there exists two link records LR and LR' in LRSet such that
            LR.State = ON and LR'.State = ON and LR.ServerId ≠ LR'.ServerId then
                R.LiveLinks = Null;                  (* shut off this server for transmit *)
                R.State = MultipleServers
        Else
            R.LiveLinks = {L: L in R.Links and LinkArray[L].State = ON
                        (* For FDDI links, also check that each L in LiveLinks is Full-Duplex *)

UpdateVlanStatus                    (* checks for Vlan errors and assigns links to Vlans *)
    For each VlanRecord VR in VlanList
        Let SR be the ServerRecord corresponding to VR.ServerName
        If SR.State ≠ ON then VR.State = ServerFailure
        If there exists a LinkRecord LR corresponding to a link in SR.Links
            and such that LR.State = ON and VR.VlanId is not in LR.Vlans then
```

VR.State = IdMismatch

If there exists a LinkRecord LR corresponding to a link in SR.Links

such that LR.State = ON AND if there is some record S in LR.Vlans

such that S.VlanId = VR.VlanID and S.Type ≠ VR.Type then

VR.State = TypeMismatch

Else VR.AssignedLink = ChooseAssignedLink(VR,SR);

ChooseAssignedLink(VR,SR) (* encapsulates link assignment policy *)

(*choose an assigned link for VR among all ON links in SR.Links *)

(*that are ON so as to distribute VLans among ON Server links *)